

Entrusted to operate the C.W. Bill Young Cell Transplantation Program

**National Coordinating Center** 

3001 Broadway St. N.E. Suite 100

Minneapolis, MN 55413-1753

Toll Free: 1 (800) 526-7809 Phone: (612) 627-5800

marrow.org

May 11, 2009

Cdr. Elizabeth Montcalm-Smith Office of Naval Research (ONR 342)

875 N. Randolph St.

Arlington, VA 22203-1995

Quarterly Performance/Technical Report of the National Subject:

Marrow Donor Program<sup>®</sup>

Reference: Grant Award #N00014-06-1-1207 between the Office of

Naval Research and the National Marrow Donor Program

Dear Cdr. Montcalm-Smith:

Enclosed is subject document which provides the performance activity for each statement of work task item of the above reference for the period of January 1, 2009 to March 31, 2009.

Should you have any questions as to the scientific content of the tasks and the performance activity of this progress report, you may contact our Chief Medical Officer – Dennis L Confer, MD directly at 612-362-3425.

With this submittal of the quarterly progress report, the National Marrow Donor Program has satisfied the reporting requirements of the above reference for quarterly documentation. Other such quarterly documentation has been previously submitted under separate cover.

Please direct any questions pertaining to the cooperative agreement to my attention (612-362-3403 or at cabler@nmdp.org).

Sincerely,

Carla Abler-Erickson, MA

Sr. Contracts Representative

Enclosure: Quarterly Report with SF298

Carla Ablu-Enckson

C: D. Ivery – ACO (ONR-Chicago), letter and enclosure

Dr. Robert J. Hartzman, CAPT, MC, USN (Ret): letter and enclosure Jennifer Ng, PhD – C.W. Bill Young Marrow Donor Recruitment and

Research Program, letter and enclosure

J. Rike - DTIC (Ste 0944): letter and enclosure

NRL (Code 5227): letter and enclosure

Dennis Confer, MD, Chief Medical Officer, NMDP, letter only

Michelle Setterholm, NMDP letter only

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#### NATIONAL MARROW DONOR PROGRAM®

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# Grant Award N00014-08-1-1207

# QUARTERLY PERFORMANCE / TECHNICAL REPORT FOR JANUARY 01, 2009 to MARCH 31, 2009

Office of Naval Research

And

The National Marrow Donor Program 3001 Broadway Street N.E.
Minneapolis, MN 55413
1-800-526-7809

# QUARTER PROGRESS REPORT

	TABLE OF CONTENTS				
TASK	<b>DESCRIPTION</b> STATUS				
IIA	Contingency Preparedness				
IIA.1	Objective 1 – Care Plans by Transplant Physicians				
IIA.1.1	Task 1 – Secure Interest of Transplant Physicians	Open	4		
IIA.1.2	Task 2 – GCSF in Radiation Exposure	No Activity	4		
IIA.1.3	Task 3 – Patient Assessment Guidelines	Open	5		
IIA.1.4	Task 4 – National Data Collection and Management Model	No Activity	5		
IIA.2	Objective 2 – Coordination of Care of Casualties				
IIA.2.1	Task 1 – Contingency Response Network	Open	6		
IIA.2.2	Task 2 – Standard Operating Procedures	No Activity	8		
IIA.3	Objective 3 – Information Technology Infrastructure				
IIA.3.1	Task 1 – Disaster Recovery	Open	8		
IIA.3.2	Task 2 – Critical Facility and Staff Related Functions	Open	8		
II.B	Rapid Identification of Matched Donors				
II.B.1	Objective 1 – Resolution of Speeds Donor Selection				
IIB.1.1	Task 1 – Increase Registry Diversity	Open	9		
IIB.1.2	Task 2 – Evaluate HLA-DRB1 High Resolution Typing	Closed	9		
IIB.1.3	Task 3 – Evaluate HLA-C Typing of Donors	Closed	9		
IIB.1.4	Task 4 – Evaluate Buccal Swabs	No Activity	9		
IIB.1.5	Task 5 – Enhancing HLA Data for Selected Donors	No Activity	9		
IIB.1.6	Task 6 – Maintain a Quality Control Program N		9		
IIB.2	Objective 2 – Improve HLA Quality & Resolution				
IIB.2.1	Task 1 – Collection of Primary Data	No Activity	10		
IIB.2.2	Task 2 – Validation of Logic of Primary Data	Closed	10		
IIB.2.3	Task 3 – Reinterpretation of Primary Data	Closed	10		
IIB.2.4	Task 4 – Genotype Lists & Matching Algorithm	No Activity	10		
IIB.3	Objective 3 – Algorithm to Predict Best Donor				
IIB.3.1	Task 1 – Incorporate Frequencies into Matching Algorithm	No Activity	10		
IIB.3.2	Task 2 – Enhancement of EM Algorithm	No Activity	10		
IIB.3.3			10		
IIB.3.4	Task 4 – Target Underrepresented Phenotypes No Activity				
IIB.3.5	Task 5 – Bioinformatics Web Site Closed				

# QUARTER PROGRESS REPORT

IIB.3.6	Task 6 – Utilize Search Strategy Advisors to Improve Algorithm	No Activity	11
IIB.3.7	Task 7 – Population Genetics	No Activity	11
IIB.3.8	Task 8 – Haplotype Matching	No Activity	11
IIB.3.9	Task 9 – Global Haplotype/Benchmark	No Activity	11
IIB.4	Objective 4 – Reduction of Donor Matching Time		
IIB.4.1	Task 1 – Expand Network Communications	Open	11
IIB.4.2	Task 2 – Central Contingency Management	Open	13
IIB.4.3	Task 3 – Benchmarking Analysis	Closed	13
IIB.4.4	Task 4 – Expand Capabilities of Collection and Apheresis Centers	No Activity	13
IIC.	Immunogenetic Studies		
IIC.1	Objective 1 – Influence of HLA Mismatches		
IIC.1.1	Task 1 – Donor Recipient Pair Project	No Activity	14
IIC.2	Objective 1 – Role of Other Loci and GVHD		
IIC.2.1	Task 1 – Analysis of Non-HLA Loci	No Activity	14
IIC.2.2	Task 2 – Related Pairs Research Repository	No Activity	14
IIC.2.3	Task 3 – CIBMTR Integration	No Activity	14
IID	Clinical Research in Transplantation		
IID.1	Objective 1 – Clinical Research Improves Outcomes		
IID.1.1	Task 1 – Observational Research, Clinical Trials and NIH Transplant Center	No Activity	14
IID 1.2	Task 2 – Research with NMDP Donors	No Activity	14
IID.1.3	Task 3 – Expand Immunobiology Research	No Activity	14
	Acronym List		15

# Development of Medical Technology for Contingency Response to Marrow Toxic Agents January 01, 2009 through March 31, 2009

**IIA.** Contingency Preparedness – Objective 1: Recovery of casualties with significant myelosuppression following radiation or chemical exposure is optimal when care plans are designed and implemented by transplant physicians

0 •	optimal when care plans are designed and implemented by transplant physicians				
IIA.1.1 Task 1:	Period 2 Activity:				
Secure Interest of Transplant Physicians	• 26 RITN center staff members attended Advanced Radiation Medical Emergency training course and conducted in Oakridge, TN at the Radiation Emergency Assistance Center/Training Site (REAC/TS) on March 26 & 27, 2009. Course lessons included:				
	o Basic Health Physics & Radiation Protection: Part I				
	o A History of Serious Radiological Incidents: The Real Risk				
	o Health Physics & Contamination Control: Part II				
	o Radiation Detection, Monitoring & Protection Laboratory Exercise & Quiz				
	o Diagnosis & Management of the Acute Radiation Syndrome (ARS)				
	o Diagnosis & Management of Internal Contamination				
	o Diagnosis & Management of Acute Local Radiation Injury & Case Review: Yanango Peru				
	o Radiation Sources & Radiological Terrorism				
	o Radiation Emergency Area Protocol Demonstration				
	o Radiation Emergency Medical Management Drill				
	o Radiation Dose Estimations – Problem Solving Session				
	<ul> <li>During this period we continued to plan for the 2009 RITN conference "Nuclear Terrorism:         Hematology/Oncology Center Preparedness" to be held in Bethesda, MD on May 18<sup>th</sup> (additional details of this conference are listed under AIM II A 2.1).</li> </ul>				
IIA.1.2 Task 2: GCSF in Radiation Exposure	Period 2 Activity:  • No activity this period.				

Collection Model

#### **QUARTER PROGRESS REPORT**

IIA.1 3 Task 3:	Period 2 Activity:		
Patient Assessment Guidelines and	In the last quarter, a new version of STAR Link was released to support the Navy Contingency project.		
• Sample Tracking – Repository sample storage information is now sent to STAR Link V information will be used to track receipt of returned donor recruitment sample kits. In services have been deployed to send reminder emails back to the donors when they have their kits. This functionality can be extended for contingency donors who have been resupply addition samples.			
	<b>Do It Yourself (DIY)</b> application efforts were focused on project enhancements and preparation for the Navy Contingency project including:		
	• Kit Requests – System automatically sends sample kit requests after DIY donors register on-line.		
	• Health History Questionnaire (HHQ) - Functionality to allow donors to enter on-line HHQ forms has been developed and is currently being tested.		
	• <b>Statistic:</b> DIY Online Donor Registration through <a href="www.marrow.org">www.marrow.org</a> resulted in a <b>total of 22,011</b> between $1/1/09 - 3/31/09$ .		
	• Completed the following project initiation and analysis deliverables to support future releases on the Navy Contingency Project:		
	<ul> <li>Project scope/charter document</li> <li>Project Quality Assurance Plan</li> <li>Iteration 1 requirements/use case</li> <li>Iteration 2 requirements/use case</li> <li>Draft requirements/use case for iteration 3 (Voids)</li> <li>Began documenting requirements/use case for iteration 4</li> </ul>		
IIA 1.4 Task 4:	Period 2 Activity:		
National Data Collection Model	No activity this period.		

# Development of Medical Technology for Contingency Response to Marrow Toxic Agents January 01, 2009 through March 31, 2009

**IIA.** Contingency Preparedness – Objective 2: Coordination of the care of casualties who will require hematopoietic support will be essential in a contingency situation.

#### **IIA.2.1 Task 1:**

#### Contingency Response Network

#### **Period 2 Activity:**

- Completed the development of the 2009 RITN Tabletop Exercise and distributed it to all RITN centers to complete prior to the end of July 2009.
- During this period we continued to plan for the 2009 RITN conference "Nuclear Terrorism: Hematology/Oncology Center Preparedness" to be held in Bethesda, MD on May 18, 2009.
  - o Based on current registrations we will have approximately 100 attendees
  - O During this period we secured as a key note opening address RADM W. Craig Vanderwagen (Assistant Secretary for Preparedness and Response)
  - o This conference will have a group session in the morning to provide a common operating picture then have three (3) interactive breakout workshops held three (3) times in the afternoon so that all attendees have the opportunity to participate.
  - o Morning sessions include:
    - Threat Scenario Overview
    - National Disaster Medical System
    - Medical response expectations 10, 100, 1,000 miles from epicenter
    - Altered Standards of Medical Care Overview
    - NMDP Planning and data collection
  - Afternoon interactive breakout workgroups include:
    - Altered Standards of Care
    - Logistical issues bed mgmt, use of non-hospital loc, & staffing issues
    - Provision of medical care early and late care

# Development of Medical Technology for Contingency Response to Marrow Toxic Agents January 01, 2009 through March 31, 2009

The conference will culminate with a report of findings by the afternoon session moderators, with the intent of publishing these findings later in the year.

#### • Meetings:

- 26 Committee members attended the RITN Steering Committee meeting at the 2009 ASBMT/CIBMTR Tandem meetings on February 11, 2009, the meeting agenda consisted of:
  - RITN accomplishments in 2008
  - 2009 expansion of RITN
  - 2009 RITN tasks and educational activities
  - New developments
  - RITN Tabletop Exercises Lessons Learned from 2006-2008 and a 2009
     Tabletop Exercise Overview
  - Maintaining RITN's Momentum
- Continued to plan for a RITN Steering Committee meeting to be held on May 19, 2009 following the RITN educational conference, tentative meeting agenda includes:
  - 2009 conference review
  - 2010 or 2011 conference planning
  - Update on tabletop Lessons Learned project
  - Coordination with HHS on triage of incident victims
  - Update on RITN-VA mapping project
  - Update on JCHO interaction
  - BARDA Presentation
  - Tour of HHS Secretaries Emergency Operations Center

IIA.2.2 Task 2: Sibling Typing Standard Operating	Period 2 Activity:  • No activity this period.
Procedures	
	<b>eparedness</b> – <b>Objective 3:</b> NMDP's critical information technology infrastructure must remain operational uations that directly affect the Coordinating Center.
IIA.3.1 Task 1:	Period 2 Activity:
I.S. Disaster Recovery	<ul> <li>Additional hardware and software was purchased, installed and configured to support disaster recovery testing. Additional network segments were also added to support disaster recovery environment all for completing the upcoming test.</li> </ul>
	<ul> <li>Completed the disaster recovery smoke test for all Tier 1 applications in preparation for the disaster recovery exercise in April 2009. Also, preparations have begun for disaster recovery testing for Tier 2 through 5 applications which will be completed early summer, 2009.</li> </ul>
IIA.3.2 Task 2:	Period 2 Activity:
Critical Facility and Staff Related	Business Continuity Planning:
Functions	<ul> <li>Re-evaluated the necessity of and cancelled the installation of high tinsel strength security film on all windows of the NMDP Repository to harden the face of the storage facility in the event of a natural or man made disaster that could compromise the building structure.</li> </ul>
	<ul> <li>Began assembling NMDP operated donor center readiness kits to prepare these remote NMDP offices to better respond to incidents that impact their operations.</li> </ul>

# Development of Medical Technology for Contingency Response to Marrow Toxic Agents January 01, 2009 through March 31, 2009

IIB. Rapid Identifica	ation of Matched Donors – Objective 1: Increasing the resolution and quality of the HLA testing of
volunteers on the regi	stry will speed donor selection.
IIB.1.1 Task 1: Increase Registry Diversity	Adult Donor Registry: To successfully serve all patients in need of cellular transplantation, the Marketing and Communications Department continues to focus on developing and executing strategies and tactics that increase awareness, education and engagement among target audiences. During January – March 2009, we focused on transitioning the first phase of our core English and non-English language educational materials to the new public-facing Be The Match (SM) brand name. Be The Match will help educate the general public about the need for unrelated marrow donors and motivate them to join the registry.
IIB.1.2 Task 2: Evaluate HLA- DRB1 High Res typing IIB.1.3 Task 3:	Period 2 Activity:  • This activity is closed.
Evaluate HLA-C Typing of Donors	Period 2 Activity:  • This activity is closed.
IIB.1.4 Task 4: Evaluate Buccal	Period 2 Activity:  • No activity this period.
Swabs  IIB 1.5 Task 5: Enhancing HLA Data for Selected Donors	Period 2 Activity:  • No activity this period.
IIB 1.6 Task 6: Maintain a Quality Control Program	Period 2 Activity:  • No activity this period.

N000014-08-1-1207

# QUARTER PROGRESS REPORT

IIB. Rapid Identification of Matched Donors – Objective 2: Primary DNA typing data can be used within the registry to				
improve the quality and resolution of volunteer donor HLA assignments.				
<b>IIB 2.1 Task 1:</b>	Period 2 Activity:			
Collection of Primary Data	No activity this period.			
IIB 2.2 Task 2:	Period 2 Activity:			
Validation of Logic of Primary Data	This activity is closed.			
IIB 2.3 Task 3:	Period 2 Activity:			
Reinterpretation of Primary Data	This activity is closed.			
IIB 2.4 Task 4:	Period 2 Activity:			
Genotype Lists & Matching Algorithm	No activity this period.			
<b>IIB. Rapid Identification of Matched Donors – Objective 3:</b> Registry data on HLA allele and haplotype frequencies and on the nuances of HLA typing can be used to design computer algorithms to predict the best matched donor.				
IIB.3.1 Task 1:	Period 2 Activity:			
Phase I of EM	No activity this period			
Haplotype Logic	No activity this period.			
IIB 3.2 Task 2:	Period 2 Activity:			
Enhancement of EM Algorithm	No activity this period.			
IIB 3.3 Task 3:	Period 2 Activity:			
Optimal Registry Size Analysis	No activity this period.			

IIB 3.4 Task 4:	Period 2 Activity:			
Target Under- Represented Phenotypes	No activity this period.			
IIB 3.5 Task 5:	Period 2 Activity:			
Bioinformatics Web Site	This activity is closed.			
IIB 3.6 Task 6:	Period 2 Activity:			
Consultants to Improve Algorithm	No activity this period.			
IIB 3.7 Task 7:	Period 2 Activity:			
Population Genetics	No activity this period.			
IIB 3.8 Task 8:	Period 2 Activity:			
Haplotype Matching	No activity this period.			
IIB 3.9 Task 9:	Period 2 Activity:			
Global Haplotype/Benchmark	No activity this period.			
<b>IIB. Rapid Identification of Matched Donors – Objective 4:</b> Reducing the time and effort required to identify closely matched donors for patients in urgent need of HSC transplants will improve access to transplantation and patient survival in the context of a contingency response and routine patient care.				
IIB.4.1 Task 1:	Period 2 Activity:			
Expand Network Communications	In the last quarter, the effort for has been focused on the analysis and realization of request/fulfillment messaging and storage. This foundation (data model & integration) is a prerequisite for implementing improved electronic communication and parallel search stages.			
	• Analysis, vetting of request/fulfillment messaging structure through (peer-to-peer) P2P message realization.			
Analysis, vetting of request/fulfillment storage model.				

# Development of Medical Technology for Contingency Response to Marrow Toxic Agents January 01, 2009 through March 31, 2009

**Do It Yourself (DIY)** application project work efforts delivered the following functionality to allow Donor Centers and Recruitment Groups to use DIY as a recruitment tool:

- Automation of Drive request by DC/RG's formerly, Recruiters filled out a drive request in SLW, and then faxed in the request. CSS would manually approve these drives.
- Ability to create single use promotional codes and create estimates for a drive.
- Ability to set up multiple funding sources in a single drive. Example: CMF donor paid in which donor pays \$25.00, or CMF sponsor paid, in which a sponsor is billed and the donor responsibility is \$0.
- Prioritization and automation of funding sources which allows recruiters to choose which funding type should be charged first.
- Added CSS functionality, including Stage Drive, Cancel Drive, Estimates Status and Date, View of actual against estimates via the Drive Estimates Grid.
- Setting Drive types: This allowed for automation of "Live" drives as well.
- Drive estimates automatically updating in FDR.
- Automated Status of donors including staged, newly entered, or duplicate.
- Create unique "single use codes" ability to have SLW automatically generate X number of unique codes for a single drive, with the added functionality to export these promotional codes to a spreadsheet for mail merge.
- Drive max for Caucasian and overall drive totals.
- Automatic invoicing of newly entered donors.
- Automation of emails for kit returned, no kit received, and pending deletion due to incomplete registration in 45 and 60 days.
- UI Interface changes for Pending Donor and Pending Drive including new functionality of screens for additional edits.

#### DIY 2 - Updated Functionality and User Interface

- Automation of triggers to send emails to donor, email sent after 5, 10, and 15 days.
- Interface changes such as "Verisign" logo.

Reports that will allow tracking of donor recruitment and the supporting activities:

- Drive Activity Reports
- CSS Activity Reports

	Drive Detail Report		
IIB.4.2 Task 2:	<ul> <li>FDR will get new pushes of data from STAR Link via transactions. This new interaction will eliminate the need to send a Drive Detail report via email to the FDR user and will replace the "keying" of drive estimates.</li> <li>Changing the invoicing frequency due to length of drive. Drives longer than 12 days will invoice only monthly compared to the standard weekly.</li> <li>Period 2 Activity:</li> </ul>		
Central Contingency Management	A research project was developed to validate the 8/8 HLA high resolution match rate predictions for both Caucasian (CAU) and African American (AFA) patients. This study will validate previous registry benchmark analyses and supply valuable information regarding donor selection in the event of a contingency. During the past quarter:		
	<ul> <li>The study design was finalized and work began on the project.</li> <li>Study 'patients' were selected from the random pool of CAU and AFA donors previously high resolution HLA typed through ONR funded haplotype project and the genotypes used to run donor searches against the NMDP registry.</li> </ul>		
	<ul> <li>Scientific Services search strategy staff started to perform donor selections on behalf of the study 'patients'. Beginning next quarter, donors with repository samples will be tested to identify the high resolution match rate for patients.</li> </ul>		
IIB.4.3 Task 2: Benchmarking Analysis	Period 2 Activity:  • No activity this period.		
IIB.4.4 Task 2: Expand Capabilities of Collection and Apheresis Centers	Period 2 Activity:  • No activity this period.		

# **Development of Medical Technology for Contingency Response to Marrow Toxic Agents** January 01, 2009 through March 31, 2009

IIC. Immunogenetic Studies – Objective 1: HLA mismatches may differ in their impact on transplant outcome, therefore, it is

important to identify and quantify the influence of specific HLA mismatches. In contingency situations it will not be possible to delay transplant until a perfectly matched donor can be found.				
IIC.1.1 Task 1:	Period 2 Activity:			
Donor Recipient Pair Project	No activity this period.			
IIC. Immunogenetic	Studies – Objective 2: Even when patient and donor are HLA matched, GVHD occurs so other loci may play			
a role.				
IIC 2.1 Task 1:	Period 2 Activity:			
Analysis of non- HLA loci	No activity this period.			
IIC 2.2 Task 2:	Period 2 Activity:			
Related Pairs	No activity this period.			
Research Repository	Two activity this period.			
IIC 2.3 Task 3:	Period 2 Activity:			
CIBMTR Integration	No activity this period.			
IID. Clinical Research	h in Transplantation – Objective 1: Clinical research in transplantation improves transplant outcomes and			
supports preparedness	for a contingency response.			
IID.1.1 Task 1:	Period 2 Activity:			
Observational	No activity this period.			
Research, Clinical	Two activity this period.			
Trials and NIH				
Transplant Center				
IID.1.2 Task 2:	Period 2 Activity:			
Research with	No activity this period.			
NMDP Donors				
IID.1.3 Task 3:	Period 2 Activity:			
Expand Immuno-	No activity this period.			
biology Research	- 110 dealthy and period.			

# QUARTER PROGRESS REPORT

# Development of Medical Technology for Contingency Response to Marrow Toxic Agents January 01, 2009 through March 31, 2009

#### **ACRONYM LIST**

AABB	American Association of Blood Banks	ICRHER	International Consortium for Research on Health Effects of Radiation
AGNIS	A Crowable Network Information System	IS	Information Services
AML	A Growable Network Information System	IT	
	Acute Myelogenous Leukemia	<del></del>	Information Technology
ARS	Acute Radiation Syndrome (also known as Acute Radiation Sickness)	IRB	Institutional Review Board
ASBMT	American Society for Blood and Marrow	JCAHO	Joint Commission on Accreditation of Healthcare
	Transplantation		Organizations
ASHI	American Society for Histocompatibility and	KIR	Killer Immunoglobulin-like Receptor
	Immunogenetics		
B-LCLs	B-Lymphoblastoid Cell Lines	NCI	National Cancer Institute
BARDA	Biomedical Advanced Research and	MHC	Major Histocompatibility Complex
	Development Authority		
BMT CTN	Blood and Marrow Transplant - Clinical Trials	MICA	MHC Class I-Like Molecule, Chain A
	Network		
BRT	Basic Radiation Training	MICB	MHC Class I-Like Molecule, Chain B
C&A	Certification and Accreditation	MDACC	MD Anderson Cancer Center
CBMTG	Canadian Blood and Marrow Transplant Group	MSKCC	Memorial Sloan-Kettering Cancer Center
CBB	Cord Blood Bank	MUD	Matched Unrelated Donor
CBC	Congressional Black Caucus	NEMO	
CBS	Canadian Blood Service	NCBM	National Conference of Black Mayors
CBU	Cord Blood Unit	NHLBI	National Heart Lung and Blood Institute
CHTC	Certified Hematopoeitic Transplant Coordinator	NIH	National Institutes of Health
CIBMTR	Center for International Blood & Marrow	NIMS	National Incident Management System
	Transplant Research		
CLIA	Clinical Laboratory Improvement Amendment	NK	Natural Killer
CME	Continuing Medical Education	NMDP	National Marrow Donor Program
CMF	Community Matching Funds	NRP	National Response Plan
COG	Children's Oncology Group	NST	Non-myeloablative Allogeneic Stem Cell
			Transplantation

# QUARTER PROGRESS REPORT

CREG	Cross Reactive Groups	OCR/ICR	Optical Character Recognition/Intelligent Character Recognition
CSS	Center Support Services	OIT	Office of Information Technology
CT	Confirmatory Testing	OMB	Office of Management and Budget
CTA	Clinical Trial Application	ONR	Office of Naval Research
DC	Donor Center	P2P	Peer-to-Peer
DIY	Do it yourself	PBMC	Peripheral Blood Mononuclear Cells
DKMS	Deutsche Knochenmarkspenderdatei	PBSC	Peripheral Blood Stem Cell
DMSO	Dimethylsulphoxide	PCR	Polymerase Chain Reaction
DNA	Deoxyribonucleic Acid	PSA	Public Service Announcement
D/R	Donor/Recipient	QC	Quality control
EBMT	European Group for Blood and Marrow Transplantation	RCC	Renal Cell Carcinoma
EM	Expectation Maximization	RCI BMT	Resource for Clinical Investigations in Blood and Marrow Transplantation
EMDIS	European Marrow Donor Information System	REAC/TS	Radiation Emergency Assistance Center/Training Site
ERSI	Environment Remote Sensing Institute	RFP	Request for Proposal
FBI	Federal Bureau of Investigation	RFQ	Request for Quotation
FDA	Food and Drug Administration	RG	Recruitment Group
FDR	Fund Drive Request	RITN	Radiation Injury Treatment Network
Fst	Fixation Index	SBT	Sequence Based Typing
GETS	Government Emergency Telecommunications Service	SCTOD	Stem Cell Therapeutics Outcome Database
GCSF	Granulocyte-Colony Stimulating Factor (also known as filgrastim)	SG	Sample Group
GIS	Geographic Information System	SLW	STAR Link® Web
GvHD	Graft vs Host Disease	SSA	Search Strategy Advice
HCT	Hematopoietic Cell Transplantation	SSO	Sequence Specific Oligonucleotides
HHS	Health and Human Services	SSP	Sequence Specific Primers
HIPAA	Health Insurance Portability and Accountability Act	SSOP	Sequence Specific Oligonucleotide Probes

N000014-08-1-1207

# QUARTER PROGRESS REPORT

HLA	Human Leukocyte Antigen	STAR <sup>®</sup>	Search, Tracking and Registry
HML	Histoimmunogenetics Mark-up Language	TC	Transplant Center
HR	High Resolution	TED	Transplant Essential Data
HRSA	Health Resources and Services Administration	TNC	Total Nucleated Cell
HSC	Hematopoietic Stem Cell	TSA	Transportation Security Agency
IBWC	Immunobiology Working Committee	UI	User Interface
IDM	Infectious Disease Markers	URD	Unrelated Donor
IHWG	International Histocompatibility Working Group	WGA	Whole Genome Amplification
IPR	Immunobiology Project Results	WMDA	World Marrow Donor Association
IND	Investigational New Drug	WU	Work-up